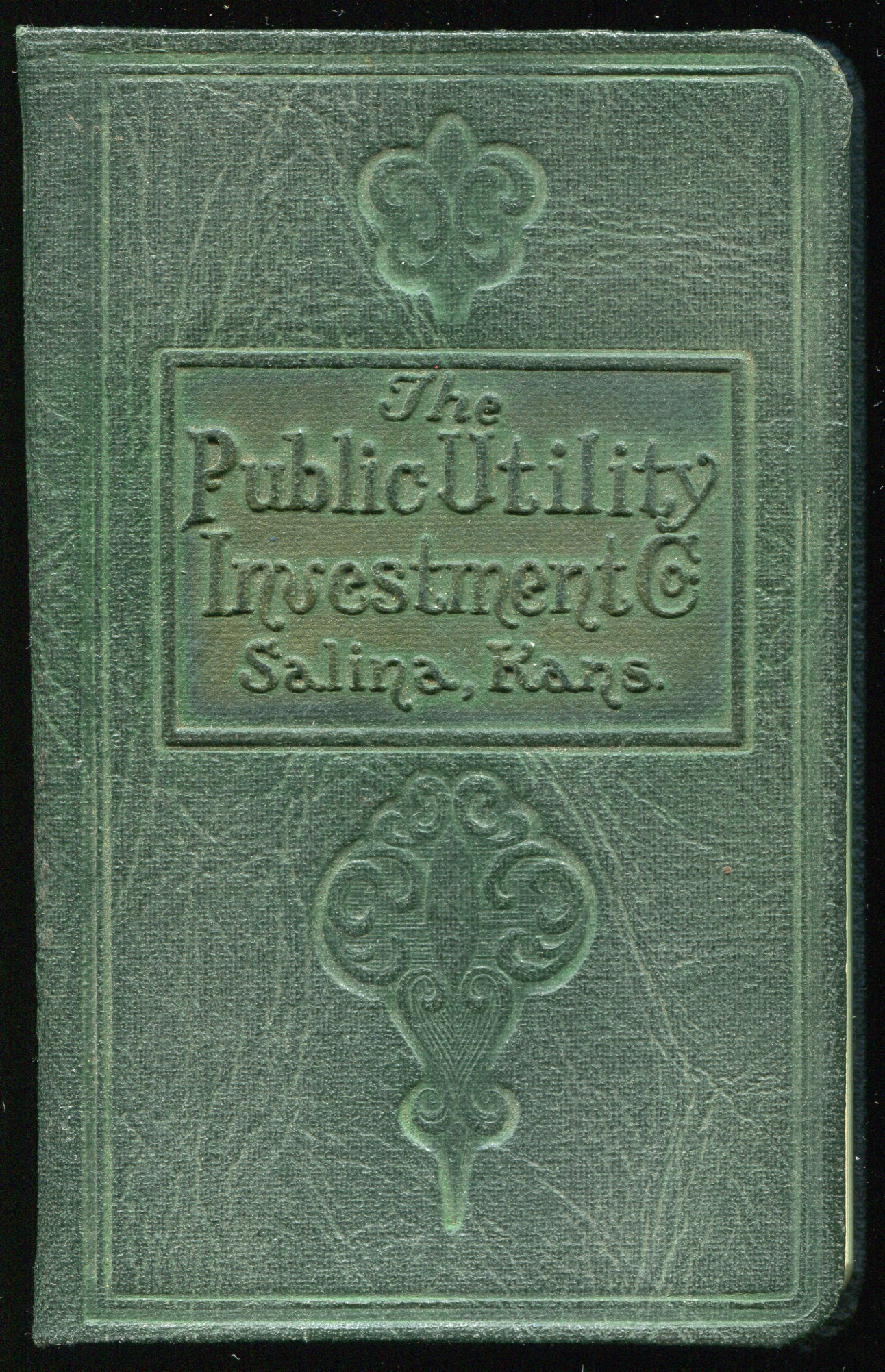
The
Public Utility
Investment Co
Salina, Kans.

1929	Sunday	Monday	Tuesday	Wednes.	Thursd'y	Friday	Saturd'y
Jan.	...	...	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	...	...
Feb.	...	...	...	...	...	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	...	...
March	...	...	...	...	...	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	...	...	...	...	...	...
April	...	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	...	...	...	...
May	...	...	...	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	...
June	...	...	...	...	...	...	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	...	...	...	...	...	...

1929	Sunday	Monday	Tuesday	Wednes.	Thursd'y	Friday	Saturd'y
July	...	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	...	...	...
Aug.	...	...	...	...	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31
Sept.	...	...	...	...	...	...	...
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	...	...	...	...	...
Oct.	...	...	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	...	...
Nov.	...	...	...	...	...	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
Dec.	...	...	...	...	...	...	...
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	...	...	...	...

IDENTIFICATION

Name .....

Address .....

In case of serious illness or accident, telegraph

.....

.....

EASY TO FORGET

Size of Hat..... Gloves.....

Size of Collar..... Cuffs.....

Size of Shirt..... Shoes.....

Make of my Watch.....

Number on Case of Watch.....

Number on Works of Watch.....

Watch was last cleaned.....

Number of my Telephone.....

My weight was.....date.....

My height was....ft....in., date.....

.....

.....

WEIGHTS AND MEASURES

Troy Weight

24 grains=1 pwt.
20 pwts.=1 ounce
12 ounces=1 pound

Used for weighing gold, silver and jewels.

Apothecaries' Weight

20 grains=1 scruple
3 scruples=1 dram
8 drams=1 ounce
12 ounces=1 pound

The ounce and pound in this are the same as in Troy weight.

Avoirdupois Weight

27 11/32 grains=1 dram
16 drams=1 ounce
16 ounces=1 pound
1 oz. Troy=480 grains
1 oz. Av.=437½ grains
100 pounds=1 cwt.
2,000 lbs.=1 short ton
2,240 lbs.=1 long ton
1 lb. Troy=5,760 grains
1 lb. Av.=7,000 grains

Dry Measure

2 pints=1 quart
8 quarts=1 peck
4 pecks=1 bushel

Liquid Measure

4 gills=1 pint
2 pints=1 quart
4 quarts=1 gallon
31½ gallons=1 barrel
2 barrels=1 hogshead

Time Measure

60 seconds=1 minute
60 minutes=1 hour
24 hours=1 day
7 days=1 week
28, 29, 30 or 31 days=1 calendar month
(30 days=1 month in computing interest)
365 days=1 year
366 days=1 leap year

Long Measure

12 inches=1 foot
3 feet=1 yard
5½ yards=1 rod
40 rods=1 furlong
8 furlongs=1 stat. mile
3 miles=1 league

Mariners' Measure

6 feet=1 fathom
120 fath's=1 cable lgth.
7½ cable lgths.=1 mile
5,280 feet=1 stat. mile
6,085 feet=1 naut. mile

Square Measure

144 sq. inches=1 sq. ft.
9 sq. feet=1 sq. yard
30¼ sq. yards=1 sq. rod
40 sq. rods=1 rood
4 roods=1 acre
640 acres=1 sq. mile

Surveyors' Measure

7.92 inches=1 link — 4 rods=1 chain
25 links=1 rod
10 square chains or 160 square rods=1 acre
640 acres=1 square mile
36 square miles (6 miles square)=1 township

Cubic Measure

1,728 cu. in.=1 cu. foot — 128 cu. ft.=1 cd. (wood)
27 cu. ft.=1 cu. yard — 40 cu. ft.=1 ton (shpg.)
2,150.42 cubic inches=1 standard bushel
231 cubic inches=1 standard gallon
1 cubic foot=about four-fifths of a bushel

Metric Equivalents

Linear Measure

1 centimeter=0.3937 in.	1 in.=2.54 centimeters
1 decimeter=3.937 in. =0.328 feet	1 foot=3.048 decimeters
1 meter=39.37 inches =1.0936 yards	1 yard=0.9144 meter
1 dekameter=1.9884 rds	1 rd.=0.5029 dekameter
1 kilometer=0.62137 mi.	1 mi.=1.6093 kilometers

Square Measure

1 sq. centimeter=0.1550 square inch	1 sq. inch=6.452 square centimeters
1 sq. decimeter=0.1076 square foot	1 sq. foot=9.2903 square decimeters
1 sq. meter=1.196 sq. yards	1 sq. yard=0.8361 sq. meter
1 are=3.954 sq. rods	1 square rod=0.2529 are
1 hektar=2.47 acres	1 acre=0.4047 hektar
1 sq. kilometer=0.386 square mile	1 sq. mile=2.59 square kilometers

Weights

1 gram=.03527 ounce	1 ounce=28.35 grams
1 kilogram=2.2046 lbs.	1 lb.=0.4536 kilogram
1 metric ton=1.1023 English tons	1 English ton=0.9072 metric ton

Approximate Metric Equivalents

1 decimeter=4 inches	1 liter= 1.06 qts. liquid / 0.9 quart dry
1 meter=1.1 yards	1 hektoliter=2⅝ bushels
1 kilometer=⅝ of a mi.	1 kilogram=2 1/5 lbs.
1 hektar=2½ acres	1 metric ton=2,200 lbs.
1 stere, or cu. meter= ¼ of a cord	

WEIGHTS AND MEASURES

WEIGHTS OF GRAIN

Following are the commercial weights per bushel in general use in this country. The legal weights in some cases differ from the figures here given, but in business such variations are usually disregarded. To avoid such cases of misunderstanding, and for greater convenience of computation, the "central system"—i.e. the quotation of prices by lb. or hundred lbs.—is coming into use.

Corn or Rye, per bushel	56	lbs.
Corn meal " "	50	"
Rye meal or craked corn	50	"
Bushel wheat	60	"
" potatoes	60	"
" beans	60	"
" oats	32	"
" barley	48	"
" Timothy seed	45	"
Buckwheat	52	"
Clovers, all kinds	60	"
Corn (shelled)	56	"
Corn (in the ear)	70	"
Corn (sweet)	48	"
Flax	56	"
Millet (common)	50	"
Millet (German)	50	"
Millet (Hungarian)	48	"
Speltz	40	"

GRAIN MEASURE

To find the capacity of a bin or wagon-bed multiply the cubic feet by .8 (tenths). For greater accuracy, add 1/3 of a bushel for every 100 cubic feet.

To find the cubic feet, multiply the length, width and depth together.

Number of Shrubs or Plants for an Acre

Distance apart	No. Plts.	Distance apart	No. Plts.	Distance apart	No. Plts.
3 x3 inches	696,960	4 x4 feet	2,722	13 x13 feet	257
4 x4 "	392,040	4.5x4.5 "	2,151	14 x14 "	222
6 x6 "	174,240	5 x1 "	8,712	15 x15 "	192
9 x9 "	77,410	5 x2 "	4,356	16 x16 "	170
1 x1 foot	43,560	5 x3 "	2,904	16.5x16.5 "	160
1.5x1.5 feet	19,360	5 x4 "	2,178	17 x17 "	150
2 x1 "	21,780	5 x5 "	1,742	18 x18 "	134
2 x2 "	10,890	5.5x5.5 "	1,417	19 x19 "	120
2.5x2.5 "	6,960	6 x6 "	1,240	20 x20 "	108
3 x1 "	14,520	6.5x6.5 "	1,031	25 x25 "	69
3 x2 "	7,260	7 x7 "	881	30 x30 "	48
3 x3 "	4,840	8 x8 "	680	33 x33 "	40
3.5x3.5 "	3,555	9 x9 "	537	40 x40 "	27
4 x1 "	10,890	10 x10 "	435	50 x50 "	17
4 x2 "	5,445	11 x11 "	360	60 x60 "	12
4 x3 "	3,630	12 x12 "	302	66 x66 "	8

Suitable Distances for Planting

Apples—Standard	25 to 35	feet apart each way
Dwarf (bushes)	10	" " " "
Pears—Standard	16 to 20	" " " "
Dwarf	10	" " " "
Cherries—Standard	18 to 20	" " " "
Dukes and Morrellos	16 to 18	" " " "
Plums—Standard	16 to 20	" " " "
Peaches	16 to 18	" " " "
Apricots	16 to 18	" " " "
Nectarines	16 to 18	" " " "
Quinces	10 to 12	" " " "
Currants	3 to 4	" " " "
Gooseberries	3 to 4	" " " "
Raspberries	3 to 5	" " " "
Blackberries	6 to 7	" " " "
Grapes	8 to 12	" " " "

To estimate the number of plants required for an acre at any given distance, multiply the distance between the rows by the distance between the plants, which will give the number of square feet allotted to each plant, and divide the number of square feet in an acre, 43,560 by this number. The quotient will be the number of plants required.

Objects Visible at Sea Level in Clear Weather

The following table shows the distance at sea level at which objects are visible at certain elevations.

Feet	Miles	Feet	Miles	Feet	Miles	Feet	Miles
1	1.31	10	4.18	40	8.37	80	11.85
5	2.96	20	5.92	45	8.87	90	12.23
6	3.24	25	6.61	50	9.35	100	13.23
7	3.49	30	7.25	60	10.25	150	16.22
9	3.73	35	7.83	70	11.07	200	18.76

Government Rule for Measuring Hay

Add width to the over, divide by four, square the answer, multiply by length, divide by 512.

Fry Bruhn Rule for Measuring Hay in Stack

Deduct width from over, divide by 2, multiply by length and width separately and divide by 512.

—†—†—

CONCRETE

The proper proportions for concrete sidewalks and floors, are 1 part cement to 6 parts sand. For finishing and wearing surface, 1 part cement and 2 parts coarse sand. A common floor for a cellar should be about 3 inches thick.

Proportions for concrete walls or foundations for heavy construction are 1 part cement to 7 parts gravel.

Concrete blocks to be properly made should be proportioned 1 part cement to 4 parts of fine gravel. This will give a block which, when properly cured, will be as strong as a solid concrete wall.

A concrete block to be properly cured should be well protected from the sun and dry winds. Blocks should not be removed from under cover until at least seven days after making. All blocks should be separated by pieces of lath for protection and for convenience in spraying.

Blocks should never be placed in a building until they are at least from 24 to 30 days old. Green blocks placed in a wall will crack from shrinkage.

Useful Information for Contractors

One thousand shingles, laid four inches to the weather, will cover one hundred square feet of surface, and five lbs. of shingle nails will fasten them on.

One-fifth more siding and flooring is needed than the number of square feet of surface to be covered because of the lap in siding and flooring.

Eight bushels of good lime, sixteen bushels of sand and one bushel of hair will make enough good mortar to plaster 100 square yards.

One cord of stone, three bushels of lime and a cubic yard of sand will lay one hundred cubic feet of wall.

Cement one bushel, and sand two bushels, will cover 3½ square yards, one inch thick; 4½ square yards ¾ inch thick, and 6¾ square yards ½ inch thick.

One bushel of cement and one bushel of sand will cover 2¼ square yards one inch thick; 3 square yards ¾ inch thick, and 4½ square yards ½ inch thick.

Amount of Paint Required for a Given Surface

It is impossible to give a rule that will apply in all cases, as the amount varies with the kind and the thickness of the paint, the kind of wood or other material to which it is applied, the age of the surface, etc. The following is an approximate rule. Divide the number of square feet of surface by 200. The result will be the number of gallons of liquid paint required to give two coats; or, divide by 18 and the result will be the number of pounds of pure ground white lead required to give three coats.

Six Per Cent. Interest Table

Time		$1	$5	$10	$20	$50	$100	$1000
DAYS	1	.00	.00	.00	.00	.01	.02	.17
	2	.00	.00	.00	.01	.02	.03	.38
	3	.00	.00	.01	.01	.03	.05	.50
	4	.00	.00	.01	.01	.03	.07	.67
	5	.00	.00	.01	.02	.04	.08	.83
	6	.00	.01	.01	.02	.05	.10	1.00
	7	.00	.01	.01	.02	.06	.12	1.17
	8	.00	.01	.01	.03	.07	.13	1.33
	9	.00	.01	.02	.03	.08	.15	1.50
	10	.00	.01	.02	.03	.08	.17	1.67
	15	.00	.01	.03	.05	.13	.25	2.50
	20	.00	.02	.03	.07	.17	.33	3.33
	25	.00	.02	.04	.08	.21	.42	4.17
	30	.01	.03	.05	.10	.25	.50	5.00
	33	.01	.03	.06	.11	.28	.55	5.50
	63	.01	.05	.11	.21	.53	1.05	10.50
	93	.02	.08	.16	.31	.78	1.55	15.50
MONTHS	1	.01	.03	.05	.10	.25	.50	5.00
	2	.01	.05	.10	.20	.50	1.00	10.00
	3	.02	.08	.15	.30	.75	1.50	15.00
	4	.02	.10	.20	.40	1.00	2.00	20.00
	5	.03	.13	.25	.50	1.25	2.50	25.00
	6	.03	.15	.30	.60	1.50	3.00	30.00
	7	.04	.18	.35	.70	1.75	3.50	35.00
	8	.04	.20	.40	.80	2.00	4.00	40.00
	9	.05	.23	.45	.90	2.25	4.50	45.00
	10	.05	.25	.50	1.00	2.50	5.00	50.00
	11	.06	.28	.55	1.10	2.75	5.50	55.00
	12	.06	.30	.60	1.20	3.00	6.00	60.00

Rules for Computing Interest

At 2 per cent., multiply the principal by the number of days to run, and divide by 180

2½ % as above	144	6% as above	60
3 " "	120	7 " "	51.43
3½ " "	102.86	8 " "	45
4 " "	90	9 " "	40
5 " "	72	10 " "	36

Rate of Income on Stocks

Purchased at following prices (par value being $100) and bearing interest at the following rates.

Paid	3%	4%	5%	6%	7%	8%	9%
$50	6.00	8.00	10.00	12.00	14.00	16.00	18.00
55	5.45	7.27	9.09	10.90	12.72	14.55	16.30
60	5.00	6.67	8.33	10.00	11.66	13.33	15.00
65	4.62	6.15	7.69	9.23	10.76	12.30	13.85
70	4.28	5.71	7.14	8.57	10.00	11.42	12.85
75	4.00	5.33	6.66	8.00	9.33	10.66	12.00
80	3.75	5.00	6.25	7.50	8.75	10.00	11.25
85	3.53	4.70	5.88	7.05	8.23	9.41	10.58
90	3.33	4.44	5.55	6.66	7.77	8.88	10.00
91	3.30	4.40	5.49	6.59	7.69	8.79	9.89
92	3.26	4.34	5.43	6.52	7.60	8.70	9.78
93	3.23	4.30	5.38	6.45	7.53	8.60	9.68
94	3.19	4.26	5.32	6.38	7.45	8.51	9.57
95	3.15	4.21	5.26	6.31	7.36	8.42	9.47
96	3.13	4.17	5.21	6.25	7.29	8.33	9.38
97	3.09	4.12	5.15	6.18	7.22	8.25	9.28
98	3.06	4.08	5.10	6.12	7.14	8.16	9.18
99	3.03	4.04	5.05	6.06	7.07	8.08	9.09
101	2.97	3.96	4.95	5.94	6.93	7.92	8.91
102	2.94	3.92	4.90	5.88	6.86	7.84	8.82
103	2.91	3.88	4.85	5.83	6.80	7.77	8.74
104	2.88	3.85	4.81	5.77	6.73	7.69	8.65
105	2.86	3.80	4.76	5.71	6.66	7.61	8.57
106	2.83	3.77	4.72	5.66	6.60	7.55	8.49
107	2.80	3.74	4.67	5.61	6.54	7.48	8.41
108	2.78	3.70	4.63	5.56	6.48	7.41	8.33
109	2.75	3.67	4.59	5.50	6.42	7.34	8.26
110	2.72	3.63	4.54	5.45	6.36	7.27	8.18
115	2.60	3.48	4.34	5.21	6.08	6.95	7.83
120	2.50	3.33	4.16	5.00	5.83	6.66	7.50
130	2.30	3.07	3.84	4.61	5.38	6.15	6.92
140	2.14	2.86	3.57	4.28	5.00	5.71	6.43

RATES OF POSTAGE

NEW CLASSIFICATION—Third class mail now includes all former third and fourth class matter up to and including 8 ounces. The rate is 1½ cents for each 2 ounces or fraction—except on books, catalogues, seeds, cuttings, bulbs, roots, scions and plants, which have a rate of 1 cent for each 2 ounces or fraction—on parcels up to 8 ounces. Remailed Publications, 1 cent for each 2 ounces.

Fourth class mail now includes all former third and fourth class matter over 8 ounces and parcel post rates apply. (See table on following page).

DOMESTIC POSTAGE—United States and possessions, first class (letters and all written matter) 2 cents for each ounce or fraction.

Postal cards 1 cent each. Larger mailing cards 2 cents, if printed, letter rate if wholly or partly written.

MONEY ORDER RATES—1 cent to $100.00, 5 to 22 cents.

Registration fee—15 cents to $1.00 in addition to regular postage—indemnifies from $50.00 to $1,000.00. For return receipt a fee of 3 cents extra is required.

Insurance rates from 5 cents for $5.00 to 25 cents for $100.00. Receipt obtained for 3 cents extra.

Collect on Delivery service fees from 12 cents for $10.00 to 25 cents for $100.00.

AIR MAIL—5 cents for the first ounce and 10 cents for each additional ounce.

RATES OF POSTAGE

(continued)

SPECIAL DELIVERY FEES — First Class Mail: 10 cents up to 2 pounds, 20 cents 2 to 10 lbs. Other Classes: 15 cents up to 2 lbs., 25 cents 2 to 10 lbs., 35 cents over 10 lbs. (This service provides the same handling and transportation as first class mail and immediate delivery at the office of address.)

FOREIGN POSTAGE—Letter rates to Canada, Cuba, Panama, Mexico, Newfoundland, Great Britain, Ireland and Central and South American Countries, same as domestic.—To all other foreign countries, letters 5 cents per ounce, 3 cents for each additional ounce. Post cards 3 cents each. Printed matter 2 ounces 1 cent.

PARCEL POST RATES

(For parcels weighing over 8 ounces)

Zone	Distance Miles	First Pound	Add'l Pounds	Pound Limit
1	Local	7¢	1¢—2 lbs.	70
	Within 50	7¢	1¢—1 lb.	70
2	50— 150	7¢	1¢—1 lb.	70
3	150— 300	8¢	2¢—1 lb.	70
4	300— 600	8¢	4¢—1 lb.	50
5	600—1000	9¢	6¢—1 lb.	50
6	1000—1400	10¢	8¢—1 lb.	50
7	1400—1800	12¢	10¢—1 lb.	50
8	Over 1800	13¢	12¢—1 lb.	50

SPECIAL HANDLING—10 cents up to 2 lbs., 15 cents 2 to 10 lbs., 20 cents over 10 lbs. (Provides same handling, transportation, and delivery as first class mail but does not include special delivery.)

Postal Distances and Time from New York City

Shortest Routes and by Fastest Trains

United States	M.	H.	United States	M.	H.
Albany, N. Y.	143	3¼	Memphis, Tenn.	1,286	29¾
Atlanta, Ga.	875	25½	Milwaukee, Wis.	1,046	26¼
Baltimore, Md.	185	4	Mobile, Ala.	1,229	35
Bismarck, N. D.	1,818	49½	Montpelier, Vt.	339	15
Boise City, Ida.	2,783	75	New Orleans, La.	1,365	39¼
Boston, Mass.	233	5½	Norfolk, Va.	346	12
Buffalo, N. Y.	438	10¼	Omaha, Nebr.	1,455	35½
Cape May, N. J.	172	5	Philadelphia, Pa.	90	2
Carson City, Nev.	3,016	84¼	Pittsburg, Pa.	439	9¼
Charl'st'n, S. C.	736	23½	Portland, Me.	348	8¾
Chatanooga, Tenn.	846	24	Portland, Ore.	3,248	93
Cheyenne, Wyo.	1,966	48½	Prescott, Ariz.	2,861	84
Chicago, Ill.	908	22	Providence, R. I.	186	4¼
Cincinnati, Ohio	752	18	Richmond, Va.	340	10
Cleveland, Ohio	621	13½	St. Louis, Mo.	1,060	23
Columbus, Ohio	632	13	St. Paul, Minn.	1,370	34¼
Concord, N. H.	308	9¾	Salt Lake City	2,480	64½
Denver, Colo.	1,982	56¾	San Francisco	3,230	87¾
Des Moines, Ia.	1,318	32	Santa Fe, N. M.	2,211	63¼
Detroit, Mich.	798	18½	Savannah, Ga.	844	23¾
Galveston, Texas	2,182	54¾	Seattle, Wash.	3 184	94¾
Harrisburg, Pa.	196	4¼	Tacoma, Wash.	3,225	96¾
Hartford, Conn.	110	2½	Topeka, Kans.	1,409	32¾
Helena, Mont.	2.500	69¾	Trenton, N. J.	57	1¼
Hot Sp'gs, Ark.	1,470	37¼	Vicksburg, Miss.	1,282	39¾
Indianapolis, Ind.	820	17¼	Wash'gton, D. C.	225	5
Jacksonville, Fla.	1.001	28¼	Wheeling, W. V.	506	13
Kansas City, Mo.	1,342	30¾	Wilmington, Del.	116	3
Louisville, Ky.	867	23½	Wilm'gton, N. C.	707	22½

Strength of Ice

Recently formed ice (and on the surface) one inch and a half thick will support a man; four inches thick will support cavalry; five inches thick will support an eighty-four pound cannon; ten inches thick will support an army; eighteen inches thick will support a railroad train.

January 1

January 2

January 3

January 4

January 5

January 6

January 7

January 8

January 9

January 10

January 11

January 12

January 13

January 14

January 15

January 16

January 17

January 18

January 19

January 20

January 21

January 22

January 23

January 24

January 25

January 26

January 27

January 28

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MEMORANDA

MEMORANDA

AUTOMOBILE IDENTIFICATION

Type of Body.....

Name of Vehicle.....

Model.....Year built.....

Mfrs. No.....Eng. No.....

Number of Cylinders.....

Diameter of Bore.....H. P.....

Kind of Tires.....

Motive Power.....

If Second-Hand, Date acquired.....

License Number.....

State .....

Particular Equipment.....

.....

.....

Particular Markings.....

.....

.....

AUTOMOBILE TIRE RECORD

DATE PUT ON	WHEEL	ODOMETER MILEAGE WHEN PUT ON	DATE TAKEN OFF	ODOMETER MILEAGE WHEN REMOVED	TOTAL MILEAGE	MAKE

My Car is a----------Maker's No.----------Registry No.----------

For Cleaning Various Substances

Alabaster—Use strong soap and water.

Black Silk—Brush and wipe it thoroughly, lay on table with the side intended to show, up; sponge with hot coffee strained through muslin; when partly dry, iron.

Stains, iron rust or ink from vellum or parchment—Moisten the spot with a solution of oxalic acid. Absorb same quickly by blotting paper or cloth.

Rust from steel—Take half ounce of emery powder mixed with one ounce of soap and rub well.

Fruit spots from cotton—Apply cold soap, then touch the spot with a hair pencil or feather dipped in chlorate of soda, then dip immediately in cold water.

Grease from Silks—Take a lump of magnesia, rub it wet on the spot, let it dry, then brush the powder off.

Iron rust may be be removed from white goods by sour milk.

Scorch stains from white linen—Lay in bright sun.

Mildew—Moisten the spot with clean water; rub on it a thick coating of castile soap mixed with chalk scrapings; rub with end of finger, then wash off.

Paint spots from clothing—Saturate with equal parts of turpentine and spirits of ammonia.

To cleanse house paper—Rub with a flannel cloth dipped in oatmeal.

Finger marks on furniture—Rub with a soft rag and sweet oil.

To clean tinware—Common soda applied with a moistened newspaper and polished with a dry piece will make it look like new.

USEFUL INFORMATION

To find diameter of a circle multiply circumference by .31831.

To find circumference of a circle multiply diameter by 3.1416.

To find area of a circle multiply square of diameter by .7854.

To find surface of a ball multiply square of diameter by 3.1416.

To find side of an equal square multiply diameter by .8862.

To find cubic inches in a ball multiply cube of diameter by .5236.

Doubling the diameter of a pipe increases its capacity four times.

A gallon of water (U. S. Standard) weighs 8 1/3 lbs., and contains 231 cubic inches.

A cubic foot of water contains 7½ gallons, 1,728 cubic inches, and weighs 62½ lbs.

Double riveting is from 16 to 20 per cent, stronger than single.

One cubic foot of anthracite coal weighs about 53 pounds.

One cubic foot of bituminous coal weighs from 47 to 50 pounds.

One ton of coal is equivalent to two cords of wood for steam purposes.

There are nine square feet of heating surface to each square foot of grate surface.

The average consumption of coal for steam boilers is 12 lbs. per hour for each sq. ft. of grate surface.

Each nominal horse power of a boiler requires 30 to 35 lbs. of water per hour.

A horse power is equivalent to raising 33,000 lbs. one ft. per minute, or 550 lbs. one ft. per second.

To sharpen dull files lay them in dilute sulphuric acid until they are eaten deep.

POINTS OF CONSTITUTIONAL LAW

Congress must meet at least once a year.

One State cannot undo the act of another.

By the Constitution every citizen is guaranteed a speedy trial by jury.

A power which is vested in Congress alone cannot be exercised by a State.

One State must respect the legal decisions and laws of another.

Congress cannot pass a law to punish for a crime already committed.

A person who commits a felony in one State cannot find refuge in another.

Bills for revenue can originate only in the House of Representatives, but the Senate may propose or concur with Amendments.

Treaties with foreign powers are made by the President and ratified by the Senate.

The Territories each have a delegate to Congress who is allowed the privilege of debate, but not the right to vote.

The Vice-President, who ex-officio presides over the Senate, has no vote in that body except in case of a tie ballot.

If the President holds a bill longer than ten days while Congress is in session it becomes a law without his signature.

An act of Congress cannot become a law over the President's veto except on a two-thirds vote of both houses.

The House of Representatives may impeach the President for any crime, but the Senate has the sole power to try all impeachments.

An officer of the United States Government is not permitted to accept any title of nobility, order of honor, except with the permission of Congress.

LUMBER TABLE—Reade's Reckoner of Piece Stuffs and Timbers

SIZE	LENGTH IN EVEN FEET														
	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
2x 4	8	9	11	12	13	15	16	17	19	20	21	23	24	25	27
2x 6	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
2x 8	16	19	21	24	27	29	32	35	37	40	43	45	48	51	53
2x10	20	23	27	30	33	37	40	43	47	50	53	57	60	63	67
2x12	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
4x 4	16	19	21	24	27	29	32	35	37	40	43	45	48	51	53
4x 6	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
6x 6	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
6x 8	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
8x 8	64	75	85	96	107	117	128	139	149	160	171	181	192	203	213
8x10	80	93	107	120	133	147	160	173	187	200	213	227	240	253	267
10x10	100	117	133	150	167	183	200	217	233	250	267	283	300	317	333
10x12	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400

Presidents of the United States

NAMES	Born	Native State	Inaug.	Party	Died
George Washington	1732	Va.	1789	Fed.	1799
John Adams	1735	Mass.	1797	Fed.	1826
Thomas Jefferson	1743	Va.	1801	Rep.	1826
James Madison	1751	Va.	1809	Rep.	1836
James Monroe	1758	Va.	1817	Rep.	1831
John Quincy Adams ...	1767	Mass.	1825	Coal.	1848
Andrew Jackson	1767	S. C.	1829	Dem.	1845
Martin Van Buren	1782	N. Y.	1837	Dem.	1862
Wm. H. Harrison	1773	Va.	1841	Whig	1841
John Tyler	1790	Va.	1841	Dem.	1862
James K. Polk	1795	N. C.	1845	Dem.	1849
Zachary Taylor	1784	Va.	1849	Whig	1850
Millard Fillmore	1800	N. Y.	1850	Whig	1874
Franklin Pierce	1804	N. H.	1853	Dem.	1869
James Buchanan	1791	Penn.	1857	Dem.	1868
Abraham Lincoln	1809	Ky.	1861	Rep.	1865
Andrew Johnson	1808	N. C.	1865	Rep.	1875
Ulysses S. Grant	1822	Ohio	1869	Rep.	1885
Rutherford B. Hayes ..	1822	Ohio	1877	Rep.	1893
James A. Garfield	1831	Ohio	1881	Rep.	1881
Chester A. Arthur	1830	Vt.	1881	Rep.	1886
Grover Cleveland	1837	N. J.	1885	Dem.	1908
Benjamin Harrison	1833	Ohio	1889	Rep.	1901
Grover Cleveland	1837	N. J.	1893	Dem.	1908
William McKinley	1843	Ohio	1897	Rep.	1901
Theodore Roosevelt	1858	N. Y.	1901	Rep.	1919
William Howard Taft ..	1857	Ohio	1909	Rep.	....
Woodrow Wilson	1856	Va.	1913	Dem.	1924
Warren G. Harding	1865	Ohio	1921	Rep.	1923
Calvin Coolidge	1872	Vt.	1923	Rep.	....

Population of States

Area	States and Ter.	Pop. 1910	Pop. 1920	M	E.	D.
51,998	Alabama	2,138,093	2,348,174	10	12	24
590,884	Alaska	64,356	55,036	..	..	2
113,956	Arizona	204,354	334,162	1	3	6
53,335	Arkansas	1,574,449	1,752,204	7	9	18
158,397	California	2,377,549	3,426,861	11	13	26
103,948	Colorado	799,024	939,629	4	6	12
4,965	Connecticut	1,114,756	1,380,631	5	7	14
2,370	Delaware	202,322	233,003	1	3	6
70	Dist. Columbia	331,069	437,571	..	..	2
58,666	Florida	752,619	968,470	4	6	12
59,265	Georgia	2,609,121	2,895,832	12	14	28
6,449	Hawaii	191,909	255,912	..	..	2
84,313	Idaho	325,594	431,866	2	4	8
56,665	Illinois	5,638,591	6,485,280	27	29	58
36,354	Indiana	2,700,876	2,930,390	13	15	30
56,147	Iowa	2,224,771	2,404,021	11	13	26
82,158	Kansas	1,690,949	1,769,257	8	10	20
40,598	Kentucky	2,289,905	2,416,630	11	13	26
48,506	Louisiana	1,656,388	1,798,509	8	10	20
33,040	Maine	742,371	768,014	4	6	12
12,327	Maryland	1,295,346	1,449,661	6	8	16
8,266	Massachusetts	3,366,416	3,852,356	16	18	36
57,980	Michigan	2,810,173	3,668,412	13	15	30
84,682	Minnesota	2,075,708	2,387,125	10	12	24
46,865	Mississippi	1,797,114	1,790,618	8	10	20
69,420	Missouri	3,293,335	3,404,055	16	18	36
146,572	Montana	376,053	548,889	2	4	8
77,520	Nebraska	1,192,214	1,296,372	6	8	16
110,690	Nevada	81,875	77,407	1	3	6
9,341	New Hampshire	430,572	443,083	2	4	8
8,224	New Jersey	2,537,167	3,155,900	12	14	28
122,634	New Mexico	327,301	360,350	1	3	6
49,204	New York	9,113,614	10,385,227	43	45	90
52,426	North Carolina	2,206,287	2,559,123	10	12	24
70,837	North Dakota	577,056	646,872	3	5	10
41,040	Ohio	4,767,121	5,759,394	22	24	48
96,699	Oregon	672,765	783,389	3	5	10
70,057	Oklahoma	1,657,155	2,028,283	8	10	20
46,126	Pennsylvania	7,665,111	8,720,017	36	38	76
3,435	Porto Rico	1,118,012	1,299,809	..	..	..
1,248	Rhode Island	542,610	604,397	3	5	10
30,989	South Carolina	1,515,400	1,683,724	7	9	18
77,615	South Dakota	583,888	636,547	3	5	10
42,022	Tennessee	2,184,789	2,337,885	10	12	24
265,896	Texas	3,896,542	4,663,228	18	20	40
84,990	Utah	373,351	449,396	2	4	8
9,564	Vermont	355,956	352,428	2	4	8
42,627	Virginia	2,061,612	2,309,187	10	12	24
69,127	Washington	1,141,990	1,356,621	5	7	14
24,170	West Virginia	1,221,119	1,463,701	6	8	16
56,066	Wisconsin	2,333,860	2,632,067	11	13	26
97,914	Wyoming	145,965	194,402	1	3	6
	U. S. citiz. abr'd	55,608	117,238	..	..	..
	Total	93,402,151	107,438,615			

Cities with a Population of 25,000 and Over

1920 Census

Akron, Ohio	208,435
Alameda, Cal.	28,806
Albany, N. Y.	113,344
Allentown, Pa.	73,502
Altoona, Pa.	60,331
Amsterdam, N Y.	33,524
Anderson, Ind.	29,767
Ashville, N C.	28,504
Atlanta, Ga.	200,616
Atlantic City, N J.	50,682
Auburn, N. Y	36,192
Augusta, Ga.	52,548
Aurora, Ill.	36,397
Austin, Texas	34,876
Baltimore, Md.	733,826
Bangor, Me.	25,978
Battle Creek, Mich.	36,164
Bay City, Mich	47,554
Bayonne, N J.	76,754
Beaumont, Texas	40,422
Bellingham, Wash.	25,570
Berkeley, Cal.	55,886
Bethlehem, Pa.	50,358
Binghamton, N Y.	66,800
Birmingham, Ala.	178,270
Bloomington, Ill.	28,725
Boston, Mass.	748,060
Bridgeport, Conn.	143,538
Brockton, Mass.	66,138
Brookline, Mass.	37,748
Buffalo, N Y	506,775
Butte, Mont.	41,611
Cambridge, Mass.	109,694
Camden, N J.	116,309
Canton, Ohio	87,091
Cedar Rapids, Iowa	45,566
Charleston, S. C.	67,957
Charleston, W Va.	39,608
Charlotte, N C	46,338
Chattanooga, Tenn.	57,895
Chelsea, Mass.	43,184
Chester, Pa.	58,030
Chicago, Ill.	2,701,705
Chicopee, Mass.	36,214
Cicero, Ill.	44,995
Cincinnati, Ohio	401,247
Clarksburg, W. Va.	27,869
Cleveland, Ohio	796,836
Clifton, N. J.	26,470
Colorado Springs	30,105
Columbia, S. C.	37,524
Columbus, Ga.	31,125
Columbus, Ohio	237,031
Council Bluffs, Iowa	36,162
Covington, Ky.	57,121
Cranston, R. I.	29,407
Cumberland, Md.	29,837
Dallas, Texas	158,976
Danville, Ill.	33,750
Davenport, Iowa	56,727
Dayton, Ohio	152,559
Decatur, Ill.	43,818
Denver, Colo.	256,369
Des Moines, Iowa	126,468
Detroit, Mich.	993,739
Dubuque, Iowa	39,141
Duluth, Minn	98,917
Easton, Pa.	33,813
East Chicago, Ind.	35,967
East Cleveland, Ohio	27,292
East Orange, N J.	50,710
East St. Louis, Ill.	66,740
El Paso, Texas	77,543
Elgin, Ill.	27,454
Elizabeth, N J	95,682
Elmira, N Y.	45,305
Erie, Pa.	93,372
Evanston, Ill.	37,215
Evansville, Ind.	85,264
Everett, Mass.	40,120
Everett, Wash.	27,644
Fall River, Mass.	120,485
Fitchburg, Mass.	41,013
Flint, Mich.	91,599
Fort Smith, Ark.	28,811
Fort Wayne, Ind.	86,549
Ft. Worth, Texas	106,482
Fresno, Cal.	44,616
Galveston, Texas	44,255
Gary, Ind.	55,378
Grand Rapids, Mich	137,634
Green Bay, Wis.	31,017

Hagerstown, Md.	28,066
Hamilton, Ohio	39,675
Hammond, Ind.	36,004
Hamtramck, Mich.	48,615
Harrisburg, Pa.	75,917
Hartford, Conn.	138,036
Haverhill, Mass.	53,884
Hazelton, Pa.	32,277
Highland Park, Mich.	46,499
Hoboken, N J.	68,166
Holyoke, Mass.	60,203
Houston, Texas	138,076
Huntington, W. Va.	50,177
Indianapolis, Ind.	314,194
Irvington, N J	25,480
Jackson, Mich.	48,374
Jacksonville, Fla.	91,558
Jamestown, N Y.	38,917
Jersey City, N. J.	297,864
Johnstown, Pa.	67,327
Joliet, Ill.	38,406
Joplin, Mo.	29,855
Kalamazoo, Mich.	48,858
Kansas City, Kans.	101,177
Kansas City, Mo.	324,410
Kearny, N. J.	26,724
Kenosha, Wis.	40,472
Kingston, N Y.	26,688
Knoxville, Tenn.	77,818
Kokomo, Ind.	30,067
La Crosse, Wis.	30,363
Lakewood, Ohio	41,732
Lancaster, Pa.	53,150
Lansing, Mich.	57,327
Lawrence, Mass.	94,270
Lewiston, Me.	31,791
Lexington, Ky.	41,534
Lima, Ohio	41,306
Lincoln, Nebr.	54,934
Little Rock, Ark.	64,997
Long Beach, Cal.	55,593
Lorain, Ohio	37,295
Los Angeles, Cal.	576,673
Louisville, Ky.	234,891
Lowell, Mass.	112,759
Lynchburg, Va.	29,956
Lynn, Mass.	99,148
Macon, Ga.	52,995
Madison, Wis.	38,378
Malden, Mass.	49,103
Manchester, N. H.	78,384
Mansfield, Ohio	27,824
Marion, Ohio	27,891
McKeesport, Pa.	45,975
Memphis, Tenn.	162,351
Medford, Mass.	39,038
Meriden, Conn.	29,842
Miami, Fla.	29,549
Milwaukee, Wis.	457,147
Minneapolis, Minn.	380,582
Mobile, Ala.	60,151
Montclair, N J	28,810
Moline, Ill.	30,709
Montgomery, Ala.	43,461
Mt. Vernon, N. Y.	42,726
Muncie, Ind.	36,524
Muskogee, Okla.	30,277
Muskegon, Mich.	36,570
Nashua, N H.	28,379
Nashville, Tenn.	118,342
Newark, N J	414,216
Newark, Ohio	26,718
New Bedford, Mass	121,217
New Britain, Conn.	59,316
New Brunswick, N. J	32,779
Newburgh, N Y	30,366
Newcastle, Pa.	44,938
New Haven, Conn.	162,519
New London, Conn.	25,688
New Orleans, La.	387,219
Newport, Ky	29,317
Newport, R I	30,255
Newport News, Va.	35,596
New Rochelle, N Y	36,213
Newton, Mass.	46,054
New York, N. Y	5,621,151
Niagara Falls, N Y	50,760
Norfolk, Va.	115,777
Norristown, Pa.	32,319
Norwalk, Conn.	27,700
Norwich, Conn.	29,685
Oakland, Cal.	216,361
Oak Park, Ill.	39,830
Ogden, Utah	32,804
Oklahoma City, Okla.	91,258
Omaha, Nebr.	191,601
Orange, N. J.	33,268
Oshkosh, Wis.	33,162

Pasadena, Cal.	45,354
Passaic, N. J.	63,824
Paterson, N. J.	135,866
Pawtucket, R. I.	64,248
Pensacola, Fla.	31,035
Peoria, Ill.	76,121
Perth Amboy, N. J.	41,707
Petersburg, Va.	31,002
Philadelphia, Pa.	1,823,158
Phoenix, Ariz.	29,053
Pittsburg, Pa.	588,193
Pittsfield, Mass.	41,751
Plainfield, N. J.	27,700
Pontiac, Mich.	34,273
Port Huron, Mich.	25,944
Portland, Me.	69,272
Portland, Ore.	258,288
Portsmouth, Ohio	33,011
Portsmouth, Va.	54,387
Poughkeepsie, N. Y.	35,000
Providence, R. I.	237,595
Pueblo, Colo.	42,908
Quincy, Ill.	35,978
Quincy, Mass.	47,876
Racine, Wis.	58,593
Reading, Pa.	107,784
Revere, Mass.	28,823
Richmond, Va.	171,667
Richmond, Ind.	26,765
Roanoke, Va.	50,842
Rochester, N. Y.	295,750
Rockford, Ill.	65,651
Rock Island, Ill.	35,177
Rome, N. Y.	26,341
Sacramento, Cal.	65,857
Saginaw, Mich.	61,903
St. Joseph, Mo.	77,939
St. Louis, Mo.	772,897
St. Paul, Minn.	234,595
Salem, Mass.	42,529
Salt Lake City, Utah	118.110
San Antonio, Texas	161,379
San Diego, Cal.	74,683
San Francisco, Cal	508,410
San Jose, Cal.	39,604
Savannah, Ga.	83,252
Schenectady, N. Y.	88,723
Scranton, Pa.	137,783
Seattle, Wash.	315,652
Sheboygan, Wis.	30,955
Shreveport, La.	43,874
Sioux City, Iowa	71,227
Sioux Falls, S. D.	25,176
Somerville, Mass.	93,091
South Bend, Ind.	70,983
Spokane, Wash.	104,437
Springfield, Ill.	59,183
Springfield, Mass.	129,563
Springfield, Mo.	39,631
Springfield, Ohio	60,840
Stamford, Conn.	35,086
Stockton, Cal.	40,296
Steubenville, Ohio	28,508
Superior, Wis.	39,624
Syracuse, N. Y.	171,717
Tacoma, Wash.	96,965
Tampa, Fla.	51,252
Taunton, Mass.	37,137
Terre Haute, Ind.	66,083
Toledo, Ohio	243,109
Topeka, Kans.	50,022
Trenton, N. J.	119,289
Troy, N. Y.	72,013
Tulsa, Okla.	72,075
Utica, N. Y.	94,156
Waco, Texas	38,500
Waltham, Mass.	30,915
Warren, Ohio	27,050
Washington, D. C.	437,571
Waterbury, Conn.	91,410
Waterloo, Iowa	36,230
Watertown, N. Y.	31,285
West Hoboken, N. J.	40,068
West New York, N. J.	29,926
Wheeling, W. Va.	54,322
Wichita, Kans.	72,128
Wichita Falls, Texas	40,079
Wilkes-Barre, Pa.	73,833
Williamsport, Pa.	36,198
Wilmington, Del.	110,168
Wilmington, N. C.	33,372
Winston-Salem, N. C.	48,395
Woonsocket, R. I.	43,496
Worcester, Mass.	179,754
Yonkers, N. Y.	100,226
York, Pa.	47,512
Youngstown, Ohio	132,358
Zanesville, Ohio	29,569

TELEPHONE NUMBERS

	Exchange	Number

1930	Sunday	Monday	Tuesday	Wednes.	Thursd'y	Friday	Saturd'y
Jan.	...	...	...	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	...
Feb.	...	...	...	...	...	...	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	...
March	...	...	...	...	...	...	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	...	...	...	...	...
April	...	...	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	...	...	...
May	...	...	...	...	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31
June	...	...	...	...	...	...	...
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	...	...	...	...	...

1930	Sunday	Monday	Tuesday	Wednes.	Thursd'y	Friday	Saturd'y
July	...	...	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	...	...
Aug.	...	...	...	...	...	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	...	...	...	...	...	...
Sept.	...	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	...	...	...	...
Oct.	...	...	...	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	...
Nov.	...	...	...	...	...	...	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	...	...	...	...	...	...
Dec.	...	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	...	...	...

RED WING ADV. CO.